Amendment Pursuant to 37 C.F.R. § 1.121

IN THE CLAIMS:

The claims set forth below with amendments as indicated will replace all prior versions and listing of claims in the application.

1. (Currently amended): A compound of formula (I):

in which:

- n is 1 or 2;
- p is 1 or 2;
- R_1 represents a halogen atom; a trifluoromethyl radical; a (C_1-C_4) alkyl; a (C_1-C_4) alkoxy; or a trifluoromethoxy radical;
- R₂ represents a hydrogen atom or a halogen atom;
- R3 represents a hydrogen atom; a group -OR5; a group -CH2OR5; a group
- -NR₆R₇; a group -NR₈COR₉; a group -NR₈CONR₁₀R₁₁; a group
- -CH2NR12R13; a group -CH2NR8CONR14R15; a (C1-C4)alkoxycarbonyl; or a group -CONR16R17:
- or else R₃ constitutes a double bond between the carbon atom to which it is attached and the adjacent carbon atom of the piperidine ring;
- R₄ represents a pyrazinyl an aromatic group selected from:

- the said aromatic groups which is being unsubstituted or being mono- or disubstituted by a substituent selected independently from a halogen atom; a (C_1-C_4) alkyl; a (C_1-C_4) alkoxy; and a trifluoromethyl radical;
- R₅ represents a hydrogen atom; a (C₁-C₄)alkyl; or a (C₁-C₄)alkylcarbonyl;
- R₆ and R₇ represent each independently a hydrogen atom or a (C₁-C₄)alkyl;
- R_8 represents a hydrogen atom or a (C_1-C_4) alkyl;
- Ro represents a (C₁-C₄)alkyl or a group -(CH₂)_m-NR₆R₇;
- m is 1, 2 or 3;
- R_{10} and R_{11} represent each independently a hydrogen atom or a (C_1 - C_4)alkyl;
- R₁₂ represents a hydrogen atom or a (C₁-C₅)alkyl;
- $\rm R_{13}$ represents a hydrogen atom, a (C1-C5) alkyl, a group -(CH2)_q-OH or a group -(CH2)_q-S-CH3;
- or else R_{12} and R_{13} , together with the nitrogen atom to which they are attached, constitute a heterocycle selected from aziridine, azetidine, pyrrolidine, piperidine and morpholine;
- q is 2 or 3;
- R_{14} and R_{15} represent each independently a hydrogen atom or a (C_1 - C_4)alkyl;
- R_{16} represents a hydrogen atom or a (C_1-C_4) alkyl;
- R_{17} represents a hydrogen atom, a (C1-C5) alkyl, or a group
- -(CH₂)_q-NR₆R₇;
- or else R_{16} and R_{17} , together with the nitrogen atom to which they are attached, constitute a heterocycle selected from azetidine, pyrrolidine,

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piperidine, morpholine and piperazine which is unsubstituted or substituted in position 4 by a (C_1-C_4) alkyl; or an acid addition salt $\frac{1}{2}$ hydrate or solvate thereof.

- 2. (Previously presented): A compound according to Claim 1 wherein:

 R₁ is in position 2, 3 or 4 of the phenyl and represents a trifluoromethyl radical, a chlorine atom, a methyl, a methoxy or a trifluoromethoxy radical and R₂ represents a hydrogen atom; or else R₁ is in position 3 of the phenyl and represents a trifluoromethyl radical and R₂ is in position 4 of the phenyl and represents a chlorine atom.
- 3. (Previously presented): A compound according to Claim 1 wherein:

 R₃ represents a hydrogen atom, a hydroxyl, a methoxy, an (acetyloxy)methyl, a hydroxymethyl, a dimethylamino, an acetylamino, an aminomethyl, a (methylamino)methyl, a (dimethylamino)methyl, a (diethylamino)methyl, an (isopropylamino)methyl, an (N-methylisopropylamino)methyl, an (isopentylamino)methyl; an (N-methylisopentylamino)methyl, an (isopentylamino)methyl, an (N-methylisopentylamino)methyl, an aminocarbonyl, or an azetidin-1-ylcarbonyl; or else R₃ constitutes a double bond between the carbon atom to which it is attached and the adjacent carbon atom of the piperidine ring.
- 4. (Currently amended): A compound according to Claim 1 wherein:
 R₄ represents a 2-pyridyl, a 6-methyl-2-pyridyl, a 3-(trifluoromethyl)-2-pyridyl, a 5-(trifluoromethyl)-2-pyridyl, a 3-ehloro-5-(trifluoromethyl)-2-pyridyl, a 3-pyridyl, a 4-pyridyl, a 3,5-dichloro-4-pyridyl, a 2-pyrazinyl, a 5-chloro-2-pyrazinyl, a 6-chloro-2-pyrazinyl, a 4-(trifluoromethyl)-2-pyrimidinyl, a 6-chloro-2-pyrimidinyl, a 4-pyrimidinyl, a 5-pyrimidinyl, a 3-pyridazinyl, a 6-chloro-3-pyridazinyl, a 4-pyridazinyl, a 3(2H)-pyridazinone-5-yl or a 3(2H)-pyridazinone-4-yl.
- 5. (Currently amended): A compound according to Claim 1 wherein:n is 1 or 2;

- p is 1 or 2;
- R_1 is in position 2, 3 or 4 of the phenyl and represents a trifluoromethyl radical, a chlorine atom, a methyl, a methoxy or a trifluoromethoxy radical and R_2 represents a hydrogen atom; or else R_1 is in position 3 of the phenyl and represents a trifluoromethyl radical and R_2 is in position 4 of the phenyl and represents a chlorine atom;
- R₃ represents a hydrogen atom, a hydroxyl, a methoxy, an (acetyloxy)methyl, a hydroxymethyl, a dimethylamino, an acetylamino, an aminomethyl, a (methylamino)methyl, a (diethylamino)methyl, a (diethylamino)methyl, an (isopropylamino)methyl, an (N-methylisopropylamino)methyl; an (isobutylamino)methyl; an (N-methylisobutylamino)methyl, an (isopentylamino)methyl, an (N-methylisopentylamino)methyl, an aminocarbonyl, or an azetidin-1-ylcarbonyl; or else R₃ constitutes a double bond between the carbon atom to which it is attached and the adjacent carbon atom of the piperidine ring;
- R₄ represents a 2-pyridyl, a 6-methyl-2-pyridyl, a 3-(trifluoromethyl)-2-pyridyl, a 5-(trifluoromethyl)-2-pyridyl, a 3-ehloro-5-(trifluoromethyl)-2-pyridyl, a 2-pyridyl, a 2-pyridyl, a 2-pyrazinyl, a 5-chloro-2-pyrazinyl, a 6-chloro-2-pyrazinyl, a 4-(trifluoromethyl)-2-pyrimidinyl, a 6-chloro-2-pyrimidinyl, a 4-pyrimidinyl, a 6-chloro-4-pyrimidinyl, a 5-pyrimidinyl, a 3-pyridazinyl, a 6-chloro-3-pyridazinyl, a 4-pyridazinyl, a 3(2H)-pyridazinone-5-yl, or a 3(2H)-pyridazinone-4-vl.
- 6. (Currently amended): A compound according to Claim 1 wherein:
 - n is 1;
 - p is 1;
 - R_1 is in position 2, 3 or 4 of the phenyl and represents a trifluoromethyl radical, a chlorine atom, a methoxy or a trifluoromethoxy radical and R_2 represents a hydrogen atom; or else R_1 is in position 3 of the phenyl and represents a trifluoromethyl radical and R_2 is in position 4 of the phenyl and represents a chlorine atom;
 - R₃ represents a hydroxyl, a dimethylamino, an aminomethyl, a (methylamino)methyl, a (dimethylamino)methyl, a (diethylamino)methyl, an

(isopropylamino)methyl, an (isobutylamino)methyl, an (isopentylamino)methyl, an (N-methylisopentylamino)methyl or an aminocarbonyl; or else R₃ constitutes a double bond between the carbon atom to which it is attached and the adjacent carbon atom of the piperidine ring; and - R₄ represents a 2-pyrazinyl, a 4-pyrimidinyl, a 3(2H)-pyridazinone-5-yl or a 5-(trifluoromethyl)-2-pyridyl.

7. (Previously presented): A process for preparing a compound according to Claim 1 in which n = 1 wherein a compound of formula (IIA)

$$R_{2}$$
 N -C-CH₂-Hal (IIa)

in which R_1 , R_2 and R_3 are as defined in Claim 1 and Hal represents a halogen atom, with the proviso that when R_3 contains a hydroxyl or amine function these functions may be protected, is reacted with a compound of formula (III)

$$CH_2$$
— CH_2
 $N-R_4$ (III)
 $(CH_2)_p$ CH_2

in which p and R_4 are as defined in Claim 1; and deprotection of the hydroxyl or amine functions present in R_3 where appropriate.

 (Previously presented): A process for preparing a compound according to Claim 1 in which n = 2 wherein a compound of formula IIb

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in which R_1 , R_2 and R_3 are as defined in Claim 1, with the proviso that when R_3 contains a hydroxyl or amine function these functions may be protected, is reacted with a compound of formula (III)

$$CH_2$$
— CH_2
 $N-R_4$ (III)
 CH_2 _p— CH_2

in which p and R_4 are as defined in Claim 1; and deprotection of the hydroxyl or amine functions present in R_3 where appropriate.

(Previously presented): A process for preparing a compound according to
 Claim 1 in which R₃ represents a group -CH₂NR₁₂R₁₃ in which R₁₂ and R₁₃
 each represent hydrogen
 wherein a compound of formula (IIc) or (IId)

$$R_2$$
 N -C-CH₂-Hal or R_2
 N -C-CH=CH₂
(IId)

in which R_1 and R_2 are as defined in Claim 1 and Hal represents a halogen atom, is reacted with a compound of formula (III)

$$CH_2$$
— CH_2
 $N-R_4$ (III)
 CH_2
 CH_2

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in which p and R_4 are as defined in Claim 1 to give a compound of formula (Ia)

and the cyano group of the compound of formula (Ia) is reduced.

10. (Currently amended): A compound of formula (Ia)

in which:

- n is 1 or 2;
- p is 1 or 2;
- R_1 represents a halogen atom; a trifluoromethyl radical; a (C_1-C_4) alkyl; a (C_1-C_4) alkoxy; or a trifluoromethoxy radical;
- R2 represents a hydrogen atom or a halogen atom;
- R₄ represents a pyrazinyl an aromatic group selected from:

$$\frac{1}{N}; \frac{1}{N}; \frac$$

the said aromatic groups which is being unsubstituted or mono- or disubstituted by a substituent selected independently from a halogen atom, a (C_1-C_4) alkyl, a (C_1-C_4) alkoxy, a trifluoromethoxy radical;

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or an acid addition salt hydrate or solvate thereof.

Claims 11-13 (Cancelled)

14. (Currently amended) A compound according to Claim 1 selected from the group consisting of:

1-[4-(aminomethyl)-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;

5-[4-[2-[4-hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-2-oxoethyl]-1-piperazinyl]-3(2H)-pyridazinone;

1-[4-hydroxy-4-[2-(trifluoromethyl)phenyl]-1-piperidyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;

2-[4-(4-pyrimidinyl)-1-piperazinyl]-1-[4-[3-(trifluoromethyl)phenyl]-3,6-dihydro-1(2H)-pyridyl]-1-ethanone;

2-[4-(2-pyrazinyl)-1-piperazinyl]-1-[4-[2-(trifluoromethyl)phenyl]-3,6-dihydro-1(2*H*)-pyridyl]-1-ethanone;

 $1\hbox{-}[2\hbox{-}[4\hbox{-}(2\hbox{-}pyrazinyl)\hbox{-}1\hbox{-}piperazinyl] acetyl]\hbox{-}4\hbox{-}[3\hbox{-}(trifluoromethyl)phenyl]\hbox{-}1$

4-piperidinecarboxamide;

1-[4-(dimethylamino)-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-

2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;

1-[4-hydroxy-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-2-[4-(2-pyrazinyl)-

1-piperazinyl]-1-ethanone;

 $1\hbox{-}[4\hbox{-}[(dimethylamino)methyl]\hbox{-}4\hbox{-}[3\hbox{-}(trifluoromethyl)phenyl]\hbox{-}1\hbox{-}piperidyl]\hbox{-}1$

 $\hbox{$2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;}$

1-[4-(4-chlorophenyl)-3,6-dihydro-1(2*H*)-pyridyl]-2-[4-(2-pyrazinyl)-

1-piperazinyl]-1-ethanone;

1-[4-hydroxy-4-(3-methoxyphenyl)-1-piperidyl]-2-[4-(2-pyrazinyl)-

1-piperazinyl]-1-ethanone;

 $1\hbox{-}[4\hbox{-}[4\hbox{-}chloro\hbox{-}3\hbox{-}(trifluoromethyl)phenyl]\hbox{-}3,} 6\hbox{-}dihydro\hbox{-}1(2H)\hbox{-}pyridyl]\hbox{-}$

 $\hbox{$2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;}$

 $\textcolor{red}{\textbf{1-[4-[4-chloro-3-(trifluoromethyl)phenyl]-3,6-dihydro-1(2H)-pyridyl]-1}}$

 $\hbox{$2\hbox{-}[4\hbox{-}[5\hbox{-}(trifluoromethyl)\hbox{-}2\hbox{-}pyridyl]\hbox{1-}piperazinyl]$-$1$-$ethanone;}$

1-[4-[(methylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-

 $\hbox{$2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;}$

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- 1-[4-[(diethylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-
- 2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;
- 1-[4-[(isopropylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-
- 2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;
- 1-[4-[(isobutylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-
- 2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;
- 1-[4-[(isopentylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-1-piperidyl]-
- 2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone;
- 1-[4-[(N-methylisopentylamino)methyl]-4-[3-(trifluoromethyl)phenyl]-
- 1-piperidyl]-2-[4-(2-pyrazinyl)-1-piperazinyl]-1-ethanone; and
- 1-[4-hydroxy-4-[3-(trifluoromethoxy)phenyl]-1-piperidyl]-2-[4-(2-pyrazinyl)-
- 1-piperazinyl]-1-ethanone;
- or an acid addition salt, hydrate or solvate thereof.
- 15. (Original) A pharmaceutical composition comprising a compound according to Claim 1 together with a pharmaceutically acceptable excipient.
- 16. (Original) A pharmaceutical composition comprising a compound according to Claim 2 together with a pharmaceutically acceptable excipient.
- 17. (Original) A pharmaceutical composition comprising a compound according to Claim 3 together with a pharmaceutically acceptable excipient.
- 18. (Original) A pharmaceutical composition comprising a compound according to Claim 4 together with a pharmaceutically acceptable excipient.
- 19. (Original) A pharmaceutical composition comprising a compound according to Claim 5 together with a pharmaceutically acceptable excipient.
- 20. (Original) A pharmaceutical composition comprising a compound according to Claim 6 together with a pharmaceutically acceptable excipient.
- 21. (Original) A pharmaceutical composition comprising a compound according to Claim 14 together with a pharmaceutically acceptable excipient.

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22. (Currently amended) A method for the treatment of central or peripheral neurodegenerative diseases; amyotrophic lateral sclerosis, multiple sclerosis; cardiovascular conditions; peripheral neuropathies; damage to the optic nerve and to the retina; spinal cord trauma and cranial trauma; atherosclerosis; stenoses; cicatrization; alopecia; cancers; tumours; metastases; leukaemias; chronic neuropathic and inflammatory pain; autoimmune diseases; or bone fractures; or bone diseases, which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound according to Claim 1.

- 23. (Currently amended) A method for the treatment of central or peripheral neurodegenerative diseases; amyotrophic lateral sclerosis, multiple sclerosis; cardiovascular conditions; peripheral neuropathies; damage to the optic nerve and to the retina; spinal cord trauma and cranial trauma; atherosclerosis; stenoses; cicatrization; alopecia; cancers; tumours; metastases; leukaemias; chronic neuropathic and inflammatory pain; autoimmune diseases; or bone fractures; or bone diseases, which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound according to Claim 2.
- 24. (Currently amended) A method for the treatment of central or peripheral neurodegenerative diseases; amyotrophic lateral sclerosis, multiple sclerosis; cardiovascular conditions; peripheral neuropathies; damage to the optic nerve and to the retina; spinal cord trauma and cranial trauma; atherosclerosis; stenoses; cicatrization; alopecia; cancers; tumours; metastases; leukaemias; chronic neuropathic and inflammatory pain; autoimmune diseases; or bone fractures; or bone diseases, which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound according to Claim 3.
- 25. (Currently amended) A method for the treatment of central or peripheral neurodegenerative diseases; amyotrophic lateral sclerosis, multiple sclerosis; cardiovascular conditions; peripheral neuropathies; damage to the optic nerve and to the retina; spinal cord trauma and cranial trauma; atherosclerosis; stenoses; cicatrization; alopecia; cancers; tumours; metastases; leukaemias; chronic neuropathic and inflammatory pain; autoimmune diseases; or bone fractures; or bone diseases, which

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comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound according to Claim 4.

- 26. (Currently amended) A method for the treatment of central or peripheral neurodegenerative diseases; amyotrophic lateral sclerosis, multiple sclerosis; cardiovascular conditions; peripheral neuropathies; damage to the optic nerve and to the retina; spinal cord trauma and cranial trauma; atherosclerosis; stenoses; cicatrization; alopecia; cancers; tumours; metastases; leukaemias; chronic neuropathic and inflammatory pain; autoimmune diseases; or bone fractures; or bone diseases, which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound according to Claim 5.
- 27. (Currently amended) A method for the treatment of central or peripheral neurodegenerative diseases; amyotrophic lateral sclerosis, multiple sclerosis; cardiovascular conditions; peripheral neuropathies; damage to the optic nerve and to the retina; spinal cord trauma and cranial trauma; atherosclerosis; stenoses; cicatrization; alopecia; cancers; tumours; metastases; leukaemias; chronic neuropathic and inflammatory pain; autoimmune diseases; or bone fractures; or bone diseases, which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound according to Claim 6.
- 28. (Currently amended) A method for the treatment of central or peripheral neurodegenerative diseases; amyotrophic lateral sclerosis, multiple sclerosis; cardiovascular conditions; peripheral neuropathies; damage to the optic nerve and to the retina; spinal cord trauma and cranial trauma; atherosclerosis; stenoses; cicatrization; alopecia; cancers; tumours; metastases; leukaemias; chronic neuropathic and inflammatory pain; autoimmune diseases; or bone fractures; or bone diseases, which comprises administering to a patient in need of such treatment a therapeutically effective amount of a compound according to Claim 14.

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